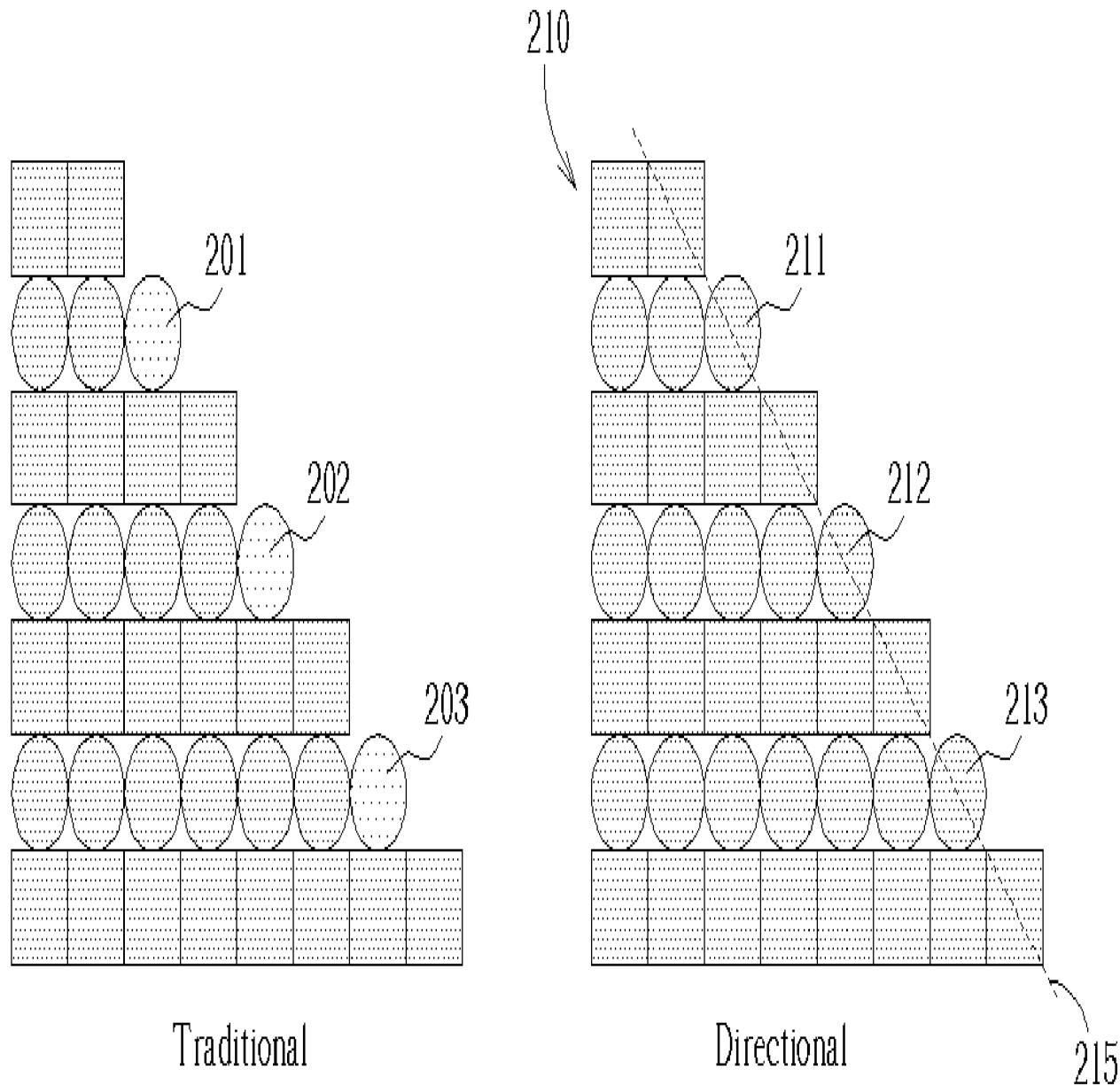


Fig. 1 Prior art



Source pixels
 Interpolated pixels

Fig. 2 Prior art

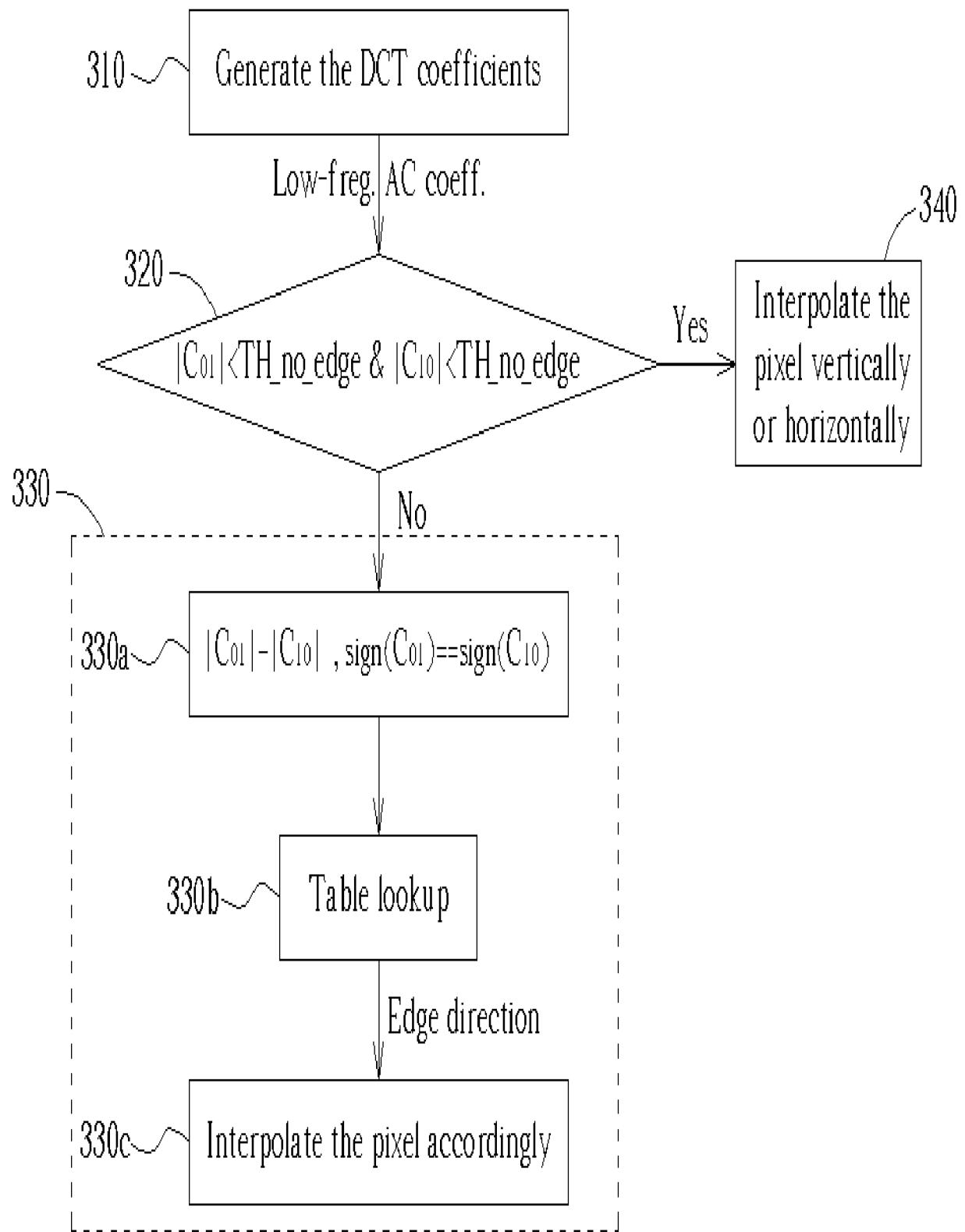


Fig. 3

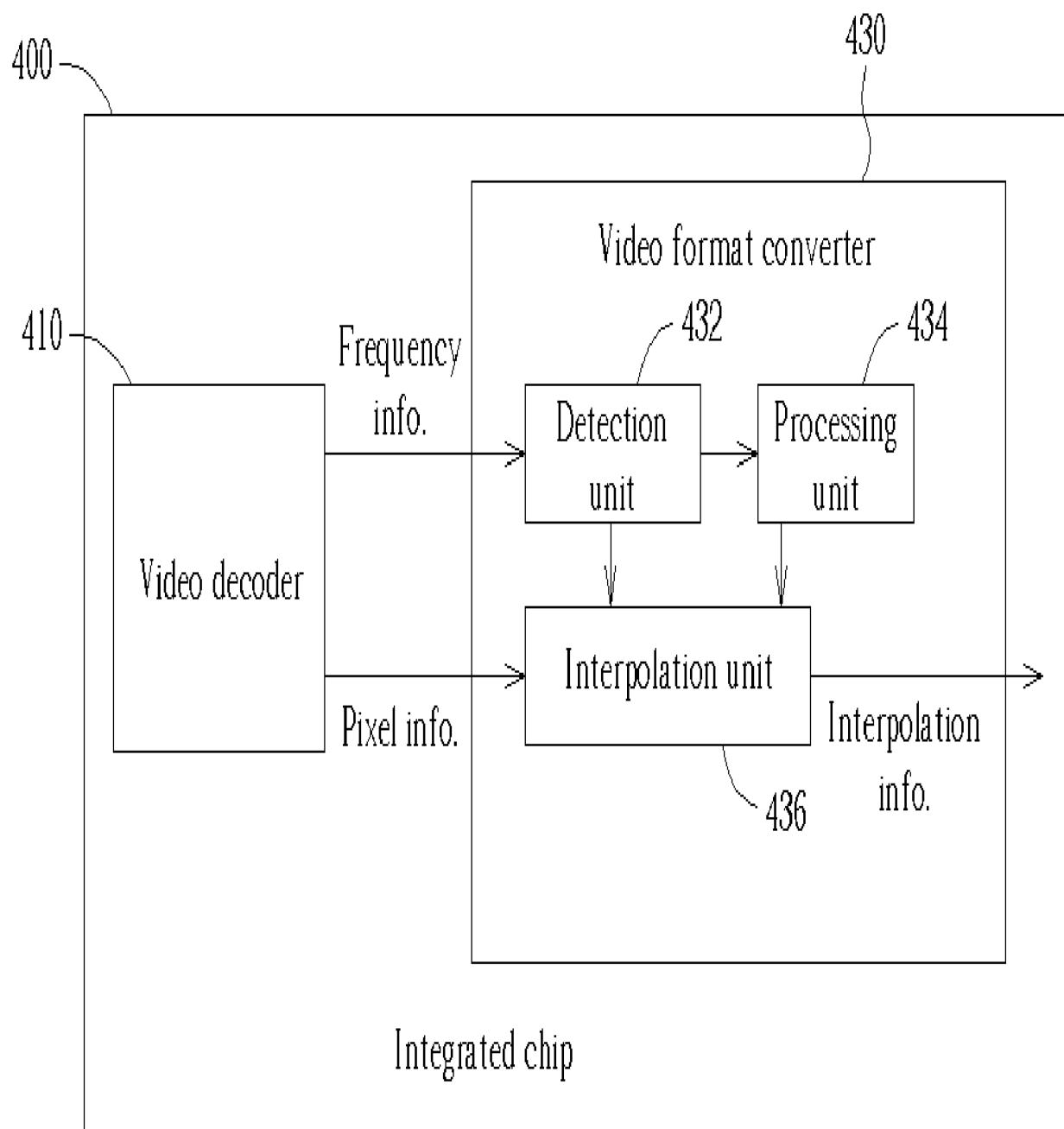


Fig. 4

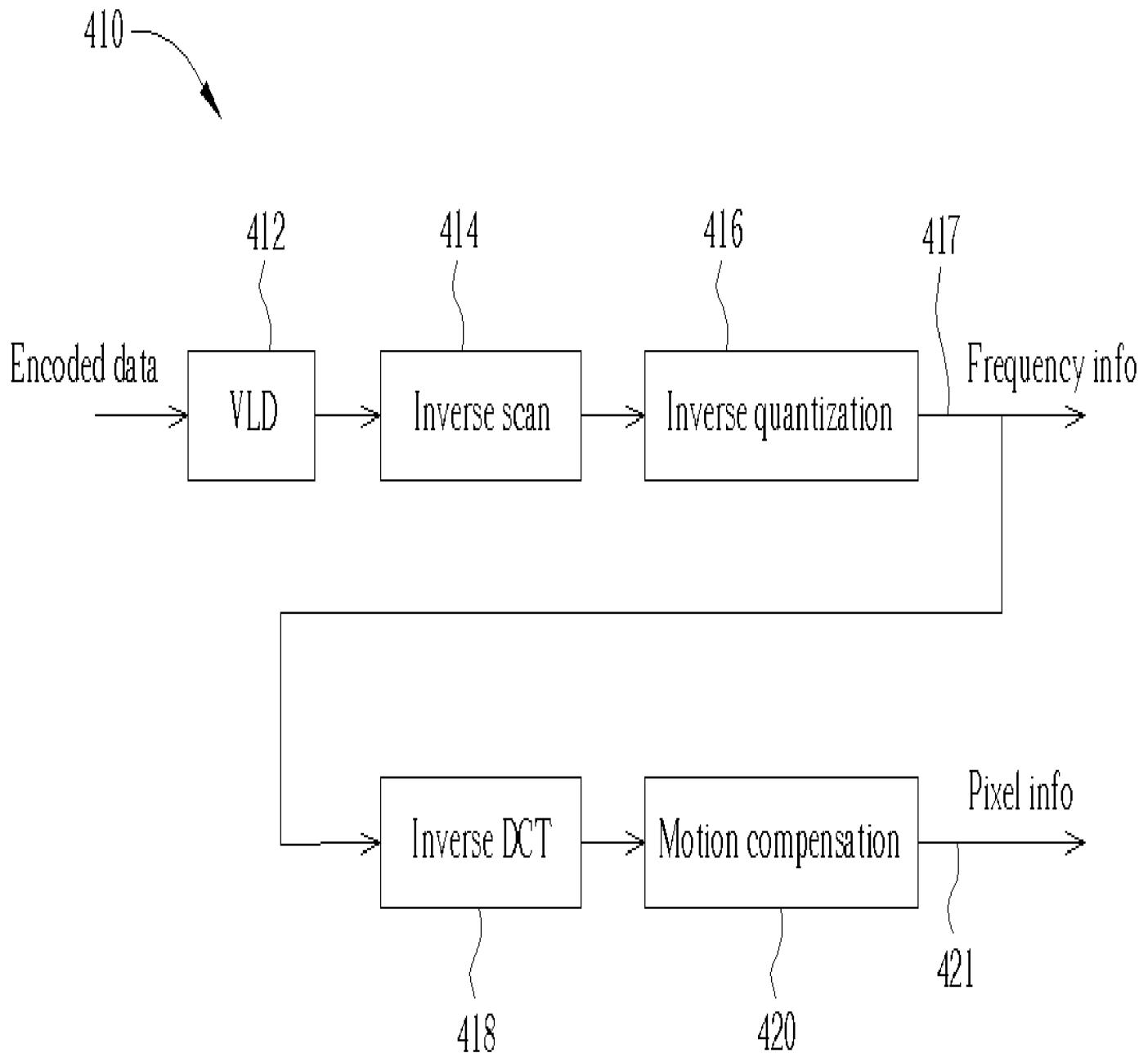
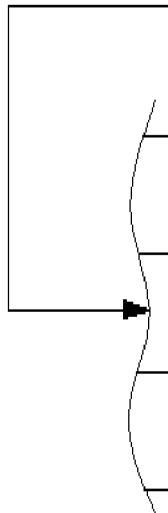


Fig. 5

C_{00}	C_{01}	C_{02}	C_{03}	C_{04}	C_{05}	C_{06}	C_{07}
C_{10}	C_{11}	C_{12}	C_{13}	C_{14}	C_{15}	C_{16}	C_{17}
C_{20}	C_{21}	C_{22}	C_{23}	C_{24}	C_{25}	C_{26}	C_{27}
C_{30}	C_{31}	C_{32}	C_{33}	C_{34}	C_{35}	C_{36}	C_{37}
C_{40}	C_{41}	C_{42}	C_{43}	C_{44}	C_{45}	C_{46}	C_{47}
C_{50}	C_{51}	C_{52}	C_{53}	C_{54}	C_{55}	C_{56}	C_{57}
C_{60}	C_{61}	C_{62}	C_{63}	C_{64}	C_{65}	C_{66}	C_{67}
C_{70}	C_{71}	C_{72}	C_{73}	C_{74}	C_{75}	C_{76}	C_{77}

Fig. 6

Sign	1 (equal)	1 (equal)	1 (equal)	1 (equal)	1 (equal)	
$ C_{01} - C_{10} $	$(-\infty, -TH1)$	$(-TH1, -TH2)$	$(-TH2, TH2)$	$(TH2, TH1)$	$(TH1, \infty)$	
Edge index	0 (0°)	7 (157.5°)	6 (135°)	5 (112.5°)	4 (90°)	



	0 (unequal)	0 (unequal)	0 (unequal)	0 (unequal)	0 (unequal)
	$(-\infty, -TH1)$	$(-TH1, -TH2)$	$(-TH2, TH2)$	$(TH2, TH1)$	$(TH1, \infty)$
	0 (0°)	1 (22.5°)	2 (45°)	3 (67.5°)	4 (90°)

Fig. 7

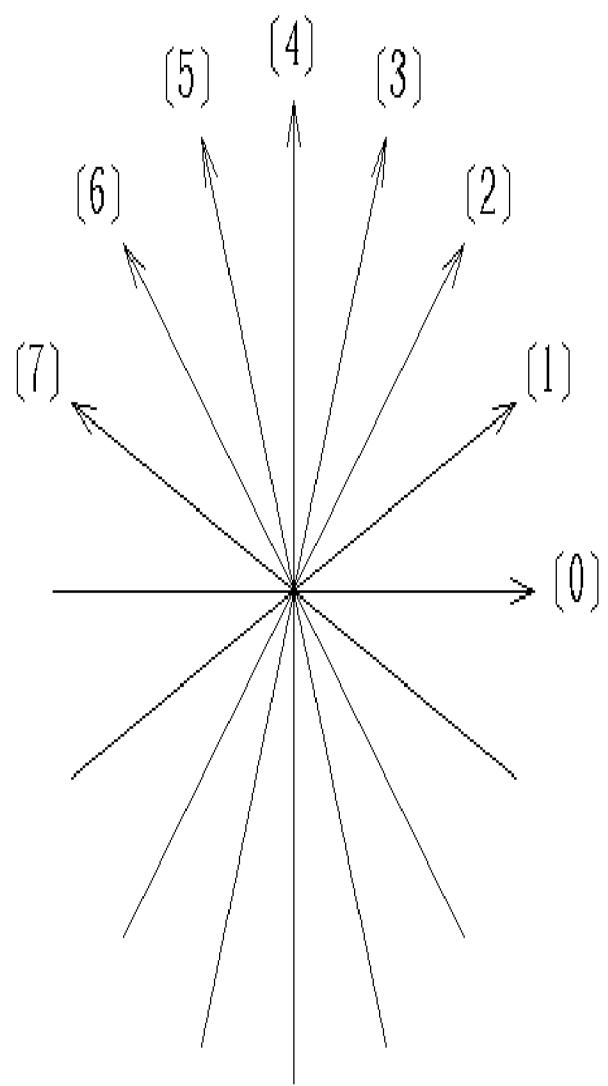


Fig. 8

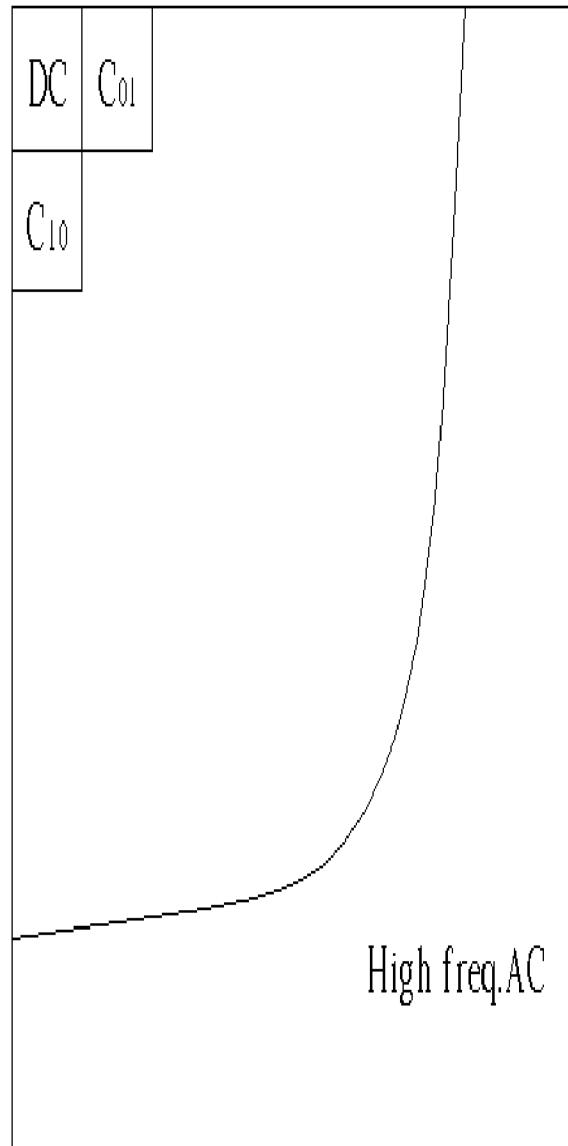


Fig. 9

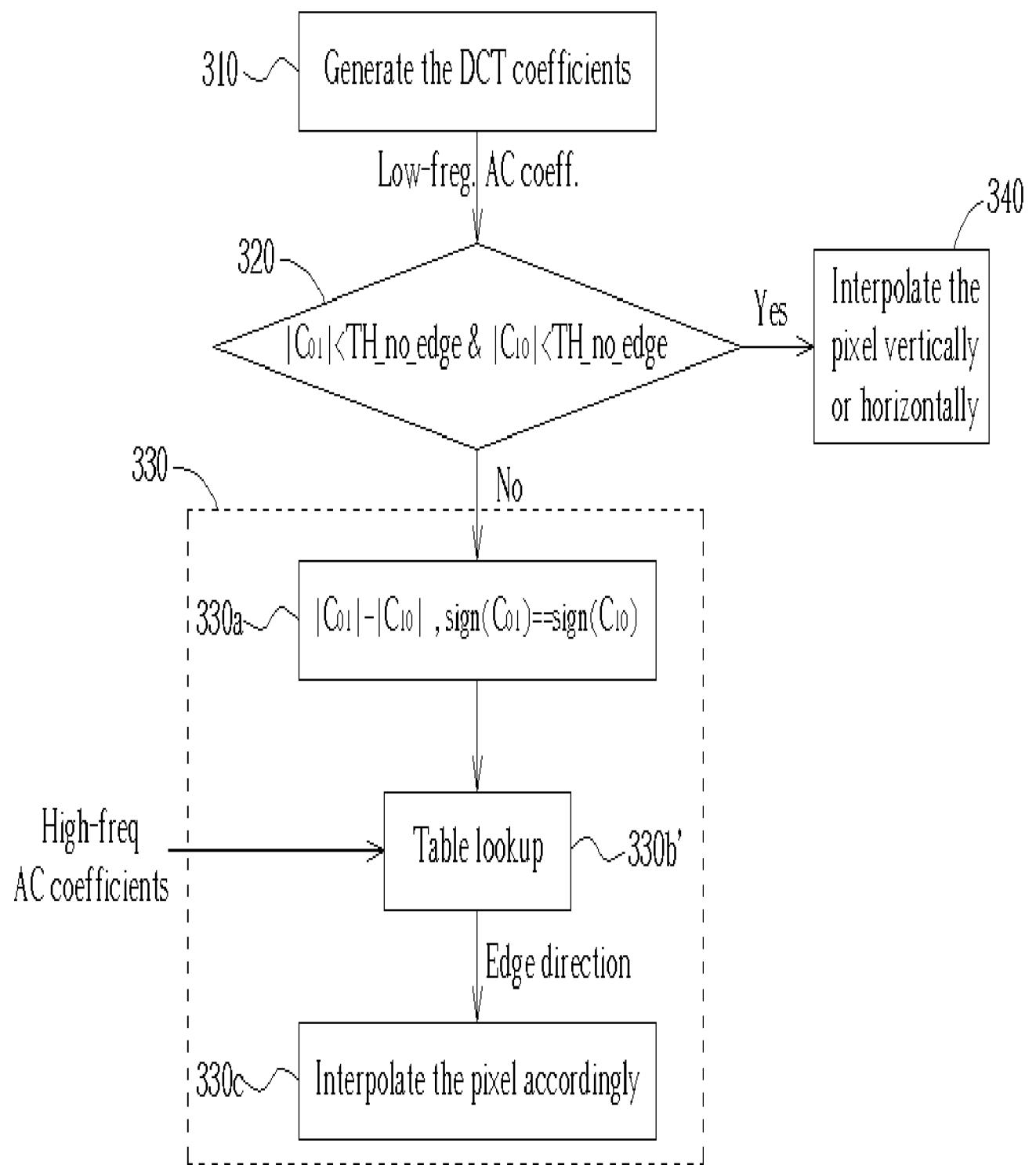


Fig. 10